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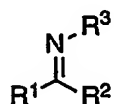
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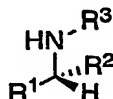
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(54) Title: **ASYMMETRIC IMINE HYDROGENATION PROCESSES**



(I)



(II)

(57) **Abstract:** A process for the catalytic hydrogenation or asymmetric hydro-  
genation of imines of Formula (I) to the corresponding amines of Formula (II)  
is provided in which R<sup>1</sup> is aryl; R<sup>2</sup> is aryl, cyclic, alkyl, alkenyl or alkynyl; and  
R<sup>3</sup> is alkyl. The catalytic system includes a ruthenium complex containing (1)  
a diamine and (2) a diphosphine or two monodentate phosphines ligands. Such

process also relates to the asymmetric hydrogenation of prochiral imines to the chiral amines using chiral ruthenium complexes  
bearing chiral diphosphines or chiral monodentate phosphines and chiral diamines.

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